

Owners Guide

Built-in pool cleaning and circulation systems



A&A Manufacturing™



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Part 1

Welcome!

Congratulations on the purchase of your new swimming pool and thank you for choosing to include an A&A Cleaning and Circulation System, the finest automatic swimming pool cleaning and circulation system in the world.

We welcome you to our growing worldwide family of satisfied A&A system owners, and we appreciate the opportunity to serve you and your family.

Basic steps of how an A&A Cleaning and Circulation system works

Figure 1 shows how the patented A&A system performs.

1. The patented A&A water valve (a) directs water to a set zone of two or more patented A&A pop-up cleaning heads (b), activating them.
2. These pre-programmed cleaning heads:
 - Pop-up and send a powerful stream of treated water across the floor, steps, benches and walls of your pool and spa.
 - Sweep dirt and debris into suspension to be removed through the main drain (c) and/or skimmer (d) to the filter (e).
3. The filter cleans the water thoroughly before returning it to the pool.
4. Next, the previously actuated cleaning heads return flush with the pool floor while rotating to their next programmable position.
5. The activation of the pop-up cleaning heads continues as long as the pool filtration system is operating.

The **A&A heavy debris removal system** offers all the benefits of the standard A&A system, plus the added benefit of more effectively removing heavy, non-suspendible debris, while offering impressive water circulation with the patented Leaf-Vac™ (f) and QuikSkim® venturi-powered skimmer.

A&A system pool schematic

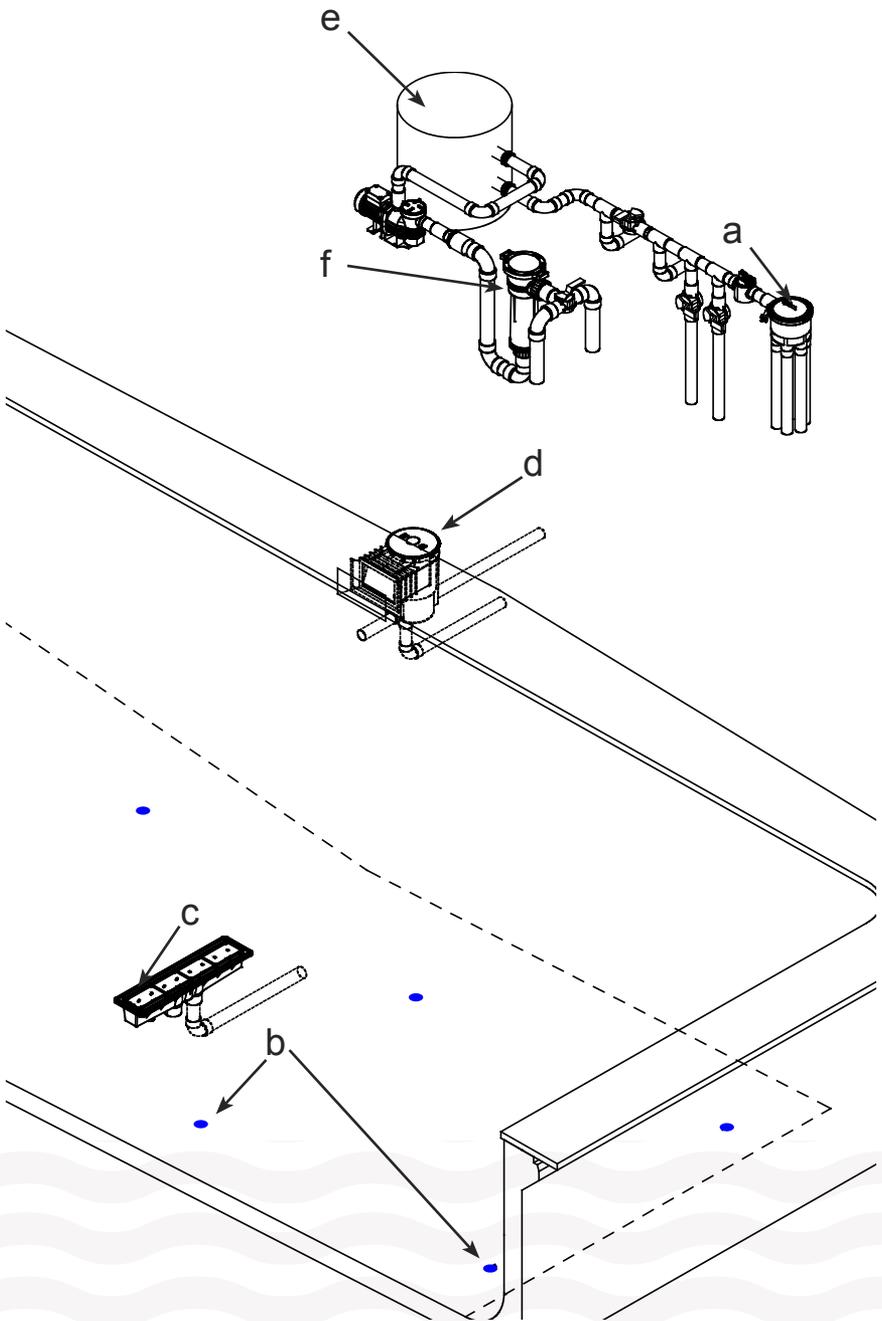


FIGURE 1

Part 2

Operating instructions

The operating instructions for your new A&A system are very simple ...
There aren't any!

That's right, the A&A built-in system is so advanced, yet so simple, that it requires no operating procedures or even routine maintenance to keep it operating at peak efficiency. Simply clean the pool filter, skimmer, Leaf Vac™ and pump baskets as you normally would. That is all there is to it. The A&A built-in system operates automatically.

Operating time

The operating time of your A&A system is exactly the same as the run time of your pool's filtration system. Operating time is based on atmospheric conditions in your area that deliver sun, wind, rain, dust, etc. Operating times should be no longer than required to keep your pool clear, clean and sanitized. During summer months or periods of heavy use, your system may require additional operating time.

Follow these steps to set the operating time of your A&A system.

1. Set the pump to run for 12 hours a day for the first five days, backwashing the filter and emptying the skimmer, pump basket and Leaf-Vac™ basket, as needed.
2. Next, decrease the time by one hour each day until you notice the pool needs to be cleaned.
3. Finally, increase the time by one hour a day until the pool remains clear and clean.

Note: To assure proper filtration and turnover rate, run time should be no less than 6 hours per day.

In the event of a storm or other adverse conditions, vacuum your pool immediately to remove debris. This may also be the case if you were planning to use the pool within the next 24 hours. Otherwise, operate the system for as long as needed to clear the pool, and then return to the normal operating time.

Low profile 6-port water-actuated valve

Adjusting the speed control <https://youtu.be/MAk8rzCZqCE>

The rotation speed of the 6-port water actuated valve is determined by the position of the clear lid when it is placed on the water valve. For maximum cleaning efficiency, we recommend that the cycle time for each zone be adjusted to run approximately 30-45 seconds (full head extension). The volume of water allowed to enter the impeller chamber of the water valve controls the speed at which it operates.

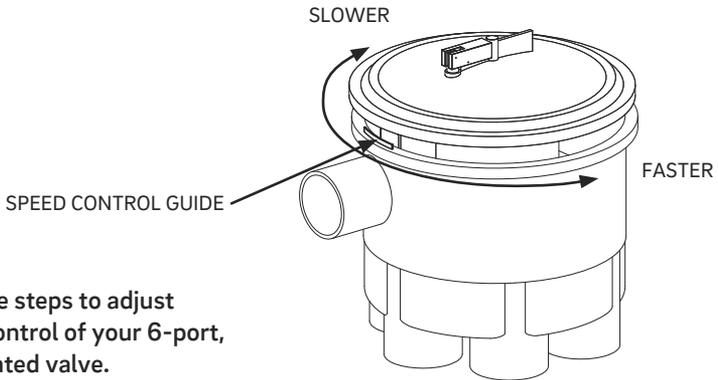


FIGURE 4

Follow these steps to adjust the speed control of your 6-port, water-actuated valve.

1. Turn the pump off.
2. Locate the speed control guide molded into the top lip of the valve housing, and the groove molded into the clear lid that accepts the speed control guide.
3. Place the lid on the valve housing, making sure the molded groove in the lid is positioned over the speed control valve guide.
4. Rotate the lid counter-clockwise to increase the cycle time. Rotating the lid clockwise decreases cycle time. (See Figure 4)
5. Once you achieve the desired speed, remove the band clamp and, with a marking pen, place a mark on the edge of the lid and valve housing as registration marks. This allows the lid to be replaced to the same position, if the water valve cover is removed later.

Using the QuikStop™ pause control

You might want to stop the system with the deep-end zone or the spa running to power the spillway, so that the pool water continues to be filtered while swimming activities continue.

Follow these steps to use the QuikStop™ pause control: (See Figure 5)

1. To pause your system, raise the black lever on the valve lid to the full vertical upright position, so that it locks in place.

2. To restart the valve, return the lever to its original horizontal position.

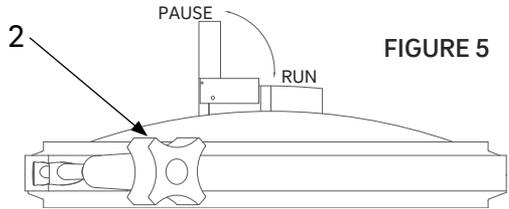


FIGURE 5

Removing the low profile water actuated valve lid

(See Figure 5 & 6)

It's easy ... Really! No tools needed!

You can disassemble the low-profile, water-actuated valve without the use of tools. Follow these steps to remove the low-profile water activated valve.

1. Turn the pump off.
2. Loosen the thumbscrew knob and remove the band clamp (2) from the actuated valve.
3. Lift the clear lid from the actuator valve and set aside on a clean surface.

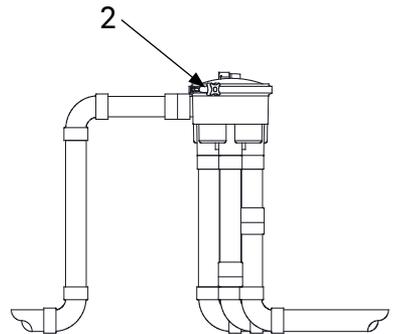


FIGURE 6

Replacing the low profile water actuated valve lid

1. Prior to placing the lid, straighten and cleanse the o-ring with clear water. Apply a very thin film of non-petroleum based lubricant if necessary.
2. Line up the center shaft with the hole in the top of the lid and the speed control guide with the groove in the lid. Place the clear lid over the lower housing and push gently down into position.
3. Install the band clamp and tighten the knob only slightly. Carefully alternate tapping around the perimeter of the band clamp while re-tightening the knob.

Tighten by hand only. Do not any use tools.

Part 3

A&A heavy debris removal system

In addition to the standard A&A system, the A&A heavy debris removal system includes a patented Leaf-Vac™ main drain system and the QuikSkim® venturi-powered skimmer.

The Leaf-Vac™ consists of a safety engineered main drain system with debris removal capabilities and a leaf canister conveniently located in the mechanical equipment area. Soaked leaves, sand, insects and other small debris that enter the main drain are deposited in a basket located in the Leaf-Vac™ canister. We recommend you periodically empty the debris captured in the basket.

The QuikSkim® venturi powered skimmer offers the option of skimming your pool surface with venturi power and/or pump suction. To adjust QuikSkim®, simply open or close the suction valve at the pool pump and/or the return venturi line at the equipment. We recommend that for most instances you use full venturi power.

Part 4

General pool maintenance

Good news! Your A&A system itself requires NO periodic maintenance.

Pool filter, pump and skimmer baskets

To keep your pool operating efficiently, you must clean the skimmer, pump baskets and backwash/clean the filter regularly. The A&A system will do the rest. If you have a Diatomaceous Earth (DE) filter, we recommend you add or replace DE through a conventional skimmer, if possible.

If you have a QuikSkim® venturi-powered skimmer, then follow these steps.

1. Remove the skimmer basket and close the valve sending return water through the venturi. **Failure to do so will result in DE blowing into the pool.**
2. Fully open the valve on the suction line from the skimmer, and then add the DE.

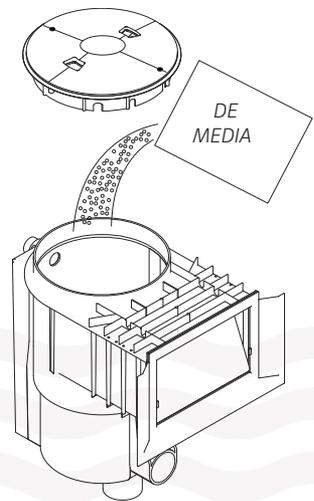


FIGURE 7

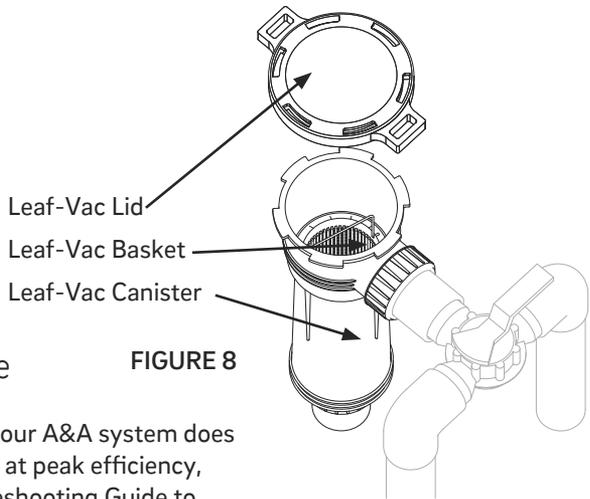
3. When the DE is no longer visible in the skimmer, return the valves to their normal positions, and replace the skimmer basket. (See Figure 7)

Cleaning the Leaf-Vac™ canister

Follow these steps to empty the Leaf-Vac™ canister as needed.

1. Turn the pump off.
2. Remove the lid from the Leaf-Vac™ canister by turning the lid in a counter-clockwise direction.
3. Lift the lid from the canister and remove the internal basket (and the silt bag, if present).
4. After emptying the basket, use a water hose to remove any material clinging to the basket.
5. Return the basket to the canister and replace the lid, turning it clockwise, until it locks into place.

Warning: Do not overtighten. (See Figure 8)



Part 5

Troubleshooting guide

In the unlikely event that your A&A system does not appear to be operating at peak efficiency, please refer to this Troubleshooting Guide to determine possible solutions.

Mandatory first steps

Follow these steps to troubleshoot your A&A system.

1. Turn the pump off.
2. Clean the pool filter, skimmer, debris bags and pump and Leaf-Vac™ baskets.
3. Make sure all auxiliary, directional valves are closed, i.e., therapy heads, aerator, surface returns, spillways, etc.
4. Ensure the return water is dedicated to the A&A water actuated valve.
5. Turn on the pump.

6. If your pool is equipped with a heater or salt chlorinator, make sure the heater bypass valve is adjusted properly and is not completely closed.
7. Observe how your system is operating. If it is not running properly, then please refer to Figure 9 for helpful suggestions on how to keep your system operating properly.
8. If you need additional help, please contact our Customer Satisfaction department at one of these phone numbers:

(800) 851-8492 outside Arizona
 (602) 256-6935 in Arizona

Common symptoms, probable causes and solutions

Figure 9 shows common symptoms and probable causes for possible performance issues, and solutions that optimize system performance.

Symptom	Probable Cause	Solution
Water Actuator Valve does not rotate. Impeller is not turning	Dirty filter and/or baskets are full of debris.	Empty all baskets and clean filter.
	Pause control is ON.	Ensure the pause control lever is in the down position.
	Return water is not properly diverted to the A&A system	Position valves on return manifold to direct 100% of the water flow to the A&A System.
Cleaning heads do not come up all the way.	Dirty filter and/or basket are full of debris.	Empty all baskets and clean the filter.
	Return water is not properly diverted to the A&A system.	Position valves on the return manifold to direct 100% of the water flow to the A&A System.

Symptom	Probable Cause	Solution
Cleaning head(s) will not go down.	Debris is stuck in the head.	Remove cleaning head and flush it with water, removing any debris that may be lodged in the head. Check for debris in the orifice and flow path.
A&A system performance is not the same as it was when the pool was first started up.	Dirty filter and/or basket are full of debris.	Empty all baskets and clean the filter.
	Debris is stuck in the head.	Remove the cleaning head and flush it with water, removing any debris that may be lodged in the head. Check for debris in the orifice and flow path.
	Return water is not properly diverted to the A&A system.	Position valves on the return manifold to direct 100% of the water flow to the A&A system.

FIGURE 9

Helpful tips

1. Turn the pump off before attempting to remove or replace pop-up cleaning heads.
2. Before replacing pop up cleaning heads, let the system cycle with the pump on to flush debris that might be present in the lines. This is especially common after new construction.
3. System filtration times may vary based on region, wind conditions, etc. It's important to note that swimming pools located in high debris areas will require longer run times.

Part 6

How to Order Replacement Parts

Warranty parts

Follow these steps to replace parts under warranty:

1. Package and ship the parts, making sure you include the following information:
 - Warranty certificate number
 - Your complete name, address and phone number(s)
2. Pre-pay the freight and ship the parts to

A&A Warranty Department
3750 West Indian School Road
Phoenix, Arizona 85019

Note: If you do not have your warranty number, you must first contact A&A Customer Satisfaction at one of the following phone numbers for directions on how to replace the parts.

(800) 851-8492 outside Arizona

(602) 256-6935 in Arizona

Out-of-warranty parts: You do not need to return out-of-warranty parts. You may order replacement parts by calling A&A Customer Satisfaction on our toll-free line, (800) 851-8492 or (602) 256-6935 in Arizona, or by visiting our web site: www.aamfg.com

Part 7

Warranty

To activate your warranty, you must complete the warranty card (inserted in this owner's guide) and return it to A&A Manufacturing within 30 days of pool start-up. Failure to mail the completed card could void your warranty.

Warranty coverage

- Lifetime Limited Warranty is to the **ORIGINAL** homeowner only. **It is not transferable.**
- Your pool builder must have submitted a plan and had your pool designed as an Authorized A&A pool builder.
- Lifetime warranty items are part for part. You must return your old part to receive your exchange/credit.
- There is no labor/service warranty coverage.

If you are NOT under warranty or need to purchase an item with limited warranty coverage, you will need to charge your purchase to a credit card prior to shipping.

Upon verification of warranty coverage, there are two warranty options available to the original homeowner that purchased the in-floor cleaning system with the purchase of their pool:

1. **EXCHANGE WARRANTY:** Return the defective parts to us, once we receive, we send you the new parts.
2. **ADVANCED WARRANTY:** Purchase new parts on a credit card, and we will send out the new parts to you. You send us the defective parts. Once we receive the defective parts, we refund your credit card.

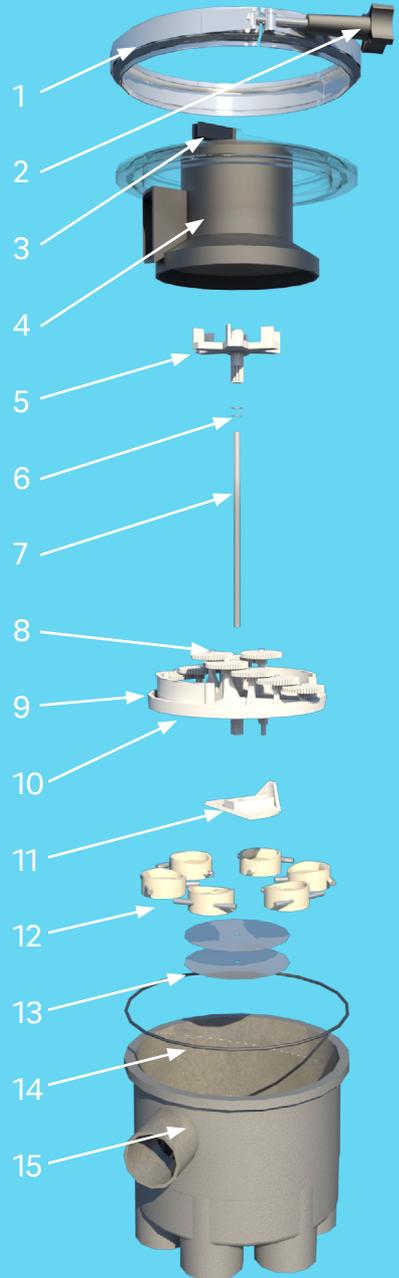
If you'd like to do the Advanced Warranty, please call customer service at 1-800-851-8492 to place your order.

Part 8

A&A low profile water actuated valve assembly

Item	Description
1.	Band clamp
2.	Clamp knob
3.	Low profile pause kit
4.	Low profile lid assembly
5.	Impeller
6.	Shims
7.	Center shaft
8.	Gear retainer clip kit (12 pack)
9.	Gears
10.	Gear plate assembly
11.	Cam
12.	2" T-flaps
13.	Anti-friction washers (x2)
14.	O-ring
15.	Lower housing (6 Ports)

Parts available in kit form only





Intelligent pool systems.

A&A Manufacturing

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3750 West Indian School Road Phoenix, Arizona 85019

aamfg.com

Revision 09/8/16

Warranty return card

This warranty return card must be filled out completely by the original purchaser of the A&A system or A&A heavy debris removal system and sent to A&A Manufacturing within 30 days of pool start up. Failure to complete and return may nullify your warranty.

Purchaser's Name _____ Date of Start-up _____
Address _____
City _____ State _____ ZIP _____
Phone (Day) _____ Phone (Evening) _____
Installing Pool builder _____

Please take the time to help us by completing the following brief, optional questions. Thank You!

1. Please list the reasons for your decision to purchase an A&A system in order of importance, from 1 (most) to 5 (least) important:

- Cleaning
- Energy Savings
- Safety - No Pressure Buildup
- No Periodic Maintenance
- Even heating (from bottom)
- Plain Language Lifetime Warranties
- Water Circulation (healthy water)
- Built-in Aesthetics (no hose)
- Individual Debris Removal
- Other _____

2. This is my 1st 2nd 3rd+ swimming pool

3. Did you purchase an inground spa with your pool?
 Yes No

4. Pool construction type:
 Concrete Vinyl Fiberglass

5. How did you learn about A&A?

- Referral (word of mouth)
- Pool Salesperson
- Friend/ Family Member
- Newspaper Ad
- Mail Advertisement
- A&A Website
- Other _____

6. Would you recommend an A&A system to a friend? Yes No

7. Would you recommend your pool builder to a friend?
 Yes No

Comments: _____



PLACE FIRST
CLASS STAMP
HERE

A&A MANUFACTURING
3750 West Indian School Road
Phoenix, Arizona 85019